10/100TX to 100 FX Media Converter w/ TS-1000 Supported

The LevelOne FVT-6001 and FVT-6301 are Multi-mode and Single-mode converters that convert 10/100BaseT copper signals to 100FX SC fiber optic signals.

The FVT-6001 is a Multi-mode converter that can convert signals up to 2km away, while the FVT-6301 Single-mode converter send and receive signals over a 30km fiber optic cable. The converters are stand-alone or can be incorporated into an existing module converter chassis for easy management. The LevelOne FVT-4000 converter chassis is compatible with these modules.

Both models offer SC format cabling connectors. The UTP port supports Auto MDI/MDI-X and offer 4 DIP switches for managing the ports and functions on the modules. The modules further support Link Loose Forwarding Technology for easy network link failure management.

Converters also support TS-1000 that designed to work with the FVT-5000 converter series for remote configuration and status monitoring.
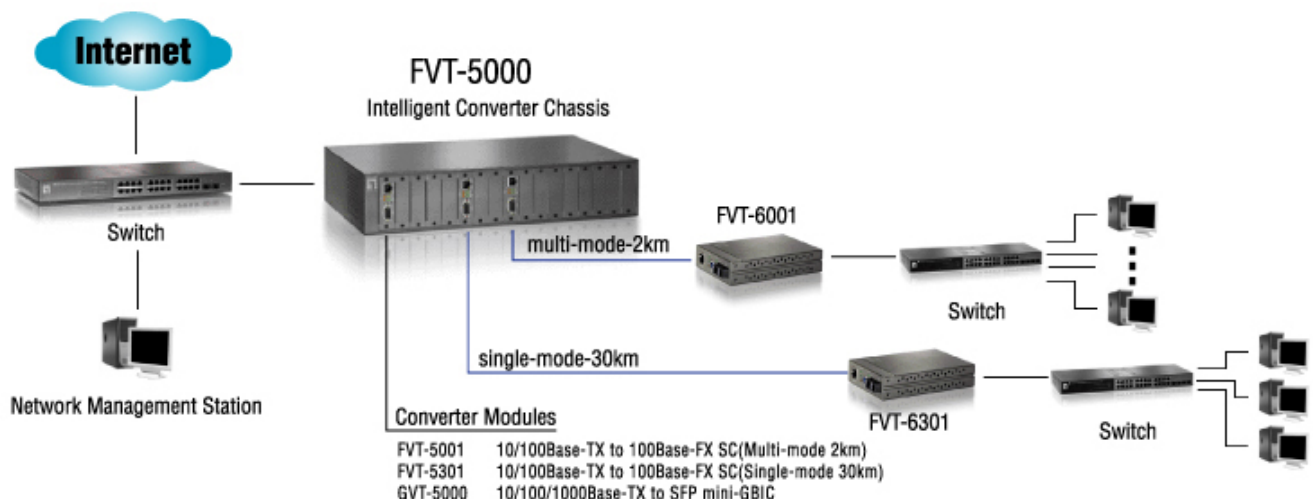
FVT-6001/6301

Key Features

- Complies with IEEE 802.3, 802.3u, 802.3x standards
- Converts network signals between UTP copper and Fiber Optic cabling
- Supports 10/100 Auto-negotiation and Auto MDI/MDI-X, Half/Full Duplex mode
- Provides connectivity in multi-mode (2km) and single-mode (30km)

- Features Link-Loose forwarding Technology
- Designed as stand-alone converter that can also be used in a module converter chassis
- Support TS-1000, compatible with FVT-5000 series modules for network extension over long distance
- Hot swappable when used in FVT-4000 converter chassis

Product Diagram

FVT-5001	10/100Base-TX to 100Base-FX SC(Multi-mode 2km)	
FVT-5301	10/100Base-TX to 100Base-FX SC(Single-mode 30km)	
GVT-5000	10/100/1000Base-TX to SFP mini-GBIC	

Technical Specification

- **Standards Compliant**
  IEEE802.3 10BASE-T
  IEEE802.3u 100BASE-TX/100BASE-FX
  IEEE802.3x Flow Control and Back pressure

- **Connector**
  Fiber:
  Duplex SC

  RJ-45 Socket:
  CAT-3/5 (10/100Mbps) Twisted Pair cable Auto
  MDI/MDI-X and support Auto-Negotiation function

- **Fiber parameters**
  Fiber Core:
  Multi-Mode (62.5/125um, 50/125um)
  Single-Mode (8/125um, 10/125um)

  Wavelength:
  Single/Multi Mode: 1310nm

  Available Fiber distance:
  Multi-Mode (2KM)
  Single-Mode Fiber (30 KM)

- **Switch architecture**
  Store and Forward

- **Link Loose Forward**
  TX → Fiber
  If TX port link down, then converter will forced fiber to link down
  Fiber → TX
  If Fiber port link down, the media converter will force TX port to link down

- **Transparent packet**
  64 to 1518 Bytes for Non-VLAN Ethernet packet
  68 to 1522 Bytes for VLAN-Tag type Ethernet packet
  Maximum transparent packet size from 64 to 1536 Bytes

- **System Power**
  Stand-alone (external adapter): DC9V / 0.7A

- **DIP Switch**
  DIP Switch 1: UTP Auto-Negotiation / 10Mbps Full Duplex mode
  DIP Switch 2: Fiber Full/Half Duplex
  DIP Switch 3: LLF (Link Lose Forwarding) Disable/Enable
  DIP Switch 4: Switch Converter / Pure converter mode

- **LED Indicators**
  Power, TX (100Mbps, LK/Act, FDX/COL)
  Fiber (LK/Act, FDX/COL)

- **Physical Specifications**
  Dimensions
  119mm x 85mm x 26mm (W x D x H)
  Temperature
  0°C to 45°C (32°F to 113°F)
  Operation Humidity
  10% to 90% (Non-condensing)
  Storage Temperature
  -40°C to 70°C

- **Certifications**
  EMI Safety
  FCC Class A, CE

Ordering Information

FVT-6001: 10/100TX to 100FX SC, Multi-mode 2km (TS-1000)

FVT-6301: 10/100TX to 100FX SC, Single-mode 30km (TS-1000)

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